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TO ACADEMY MEMBERS.

Subscriptions to OPTHALMIC LITERATURE must be paid in advance. This will apply to those received from the Academy of Ophthalmology and Oto-Laryngology. The February number will be sent only to those Fellows whose annual subscriptions to the Academy have been paid to the Treasurer, Dr. S. H. Large, of Cleveland, before February 25th. To any one who paid in advance, and sent in the proper application and data, was given the privilege of having his copy sent to a friend. This privilege is no longer accorded for the current year. OPTHALMIC LITERATURE has always been issued by the fifteenth of the month; bearing the name, and containing a list of the publications of the month preceding. Dilatory subscribers will not be permitted to embarrass its arrangements, or delay its publication.

BACK VOLUMES.

A few copies of volumes one and two still remain, which will be sold for five dollars per volume to the first applicants. Of some of the early numbers only two hundred and fifty copies were printed, so that the number of complete files will be quite limited. Twenty-five cents will be paid for each number of volume one received in good order at the office of publication.

THE INDEX AND HOW TO USE IT.

The **Index of Ophthalmology**, which constitutes the major part of OPTHALMIC LITERATURE, is the most complete index of the publications relating to ophthalmic science to be found in any language. The titles are arranged under headings that conform to the classification generally followed in books and other publications referring to diseases of the eye. Under such headings the different titles are arranged alphabetically according to the author's family name. The titles given here are not always literal transcriptions, or translations of the titles found at the heads of the articles referred to. The **Index** undertakes to indicate as briefly as possible what the article is about. Such a title as "Interesting Cases," or "A New Operation" will not be used. The **Index** will show the nature of the cases, or what the operation is for. One duty of an editor is to save the reader's time. It is a most important duty of the editor of an index.

Following some of the titles will be found certain abbreviations in parentheses. (Dis.) means that the paper has been read before

a society, and that the discussion elicited is published with the paper. (Bibl.) means that a bibliography of some importance is appended to the paper. (2 Ill.) means that with the paper are published two illustrations, so-called cuts, printed in the text; (3 plates) means that three separate plates of illustrations belonging to the paper have been published in the same number of the journal.

The ophthalmic journals designated by the various abbreviations can readily be recognized by comparison with the list given on the third page of the cover. Because of the similarity of names of journals published in different languages, it is necessary to note slight differences in these abbreviations. For instance Arch. of Ophth. (Archives of Ophthalmology) we must distinguish from Arch. d'Opht (Archives d'Ophtalmologie); or the various Annals, Annales, Anales and Annali. The abbreviations for the general medical journals conform to those set forth in the "Bibliographic Style of the American Medical Association," or those used in the Index Medicus. Probably any one taking a particular medical journal would at once recognize the abbreviation of its name. Or the abbreviation would be understood by the attendants in any medical library in which the journal was accessible.

Generally, the volume of the publication and the page on which the article appears are given. But in some cases where the volumes are not numbered in continuous series, it is necessary to use the date of issue, or some other method of indicating where the article in question may be found.

To find the latest articles on a particular subject one must look under the general heading, as under "Lens" to find suggestions for cataract operations; or under "General Diseases" to find accounts of the tuberculin treatment in ocular tuberculosis. When the volume is complete the annual index will make it easy to refer to all the papers appearing during the year, that deal with any particular subject.

CHANGES.

It is in line with the purpose of OPTHALMIC LITERATURE to make more readily available everything published relating to ophthalmology, that in this issue we begin to notice in the Index illustrations published in connection with articles referred to. It will be noted that new headings are introduced for the literature relating to Color Vision, Tests and Color Blindness, and for Comparative Ophthalmology. The heading of General Ophthalmology is omitted. It is sometimes very difficult to decide the appropriate heading under which a title should be placed or found. But with experience and classification it becomes possible to place titles appropriately and a careful inspection of a few numbers will show where in the Index any particular subject may be looked for.

BOOK NOTICES.

Bulletin et Mémoires de la Société Française d'Ophtalmologie, Twenty-ninth year. 8vo. 740 pages, ill. Paris: G. Steinheil, 1912.

In point of size this volume surpasses the annual transactions of any other national ophthalmological society. It contains many illustrations in the text, and also many plates in black and white, with some in colors. Almost one-third of the volume is occupied by the report on Albuminuric Retinitis with the discussion upon it, and this paper is illustrated by 26 figures, most of them reproductions of photomicrographs. The work is marred by the absence of any index. Then, too, the table of contents is placed at the end of the book, and contains the titles of the papers, not arranged by subjects or alphabetically; but apparently in the order in which the papers were read at the different sessions. Such a lack of system compels the reader to waste time in searching for what he may want, and diminishes the value of the volume as a reference book, its chief sphere of usefulness.

An American Encyclopedia and Dictionary of Ophthalmology is announced by The Cleveland Press, as being in preparation under the editorship of Dr. Casey A. Wood, of Chicago. The work will be prepared by American writers and published in about ten volumes of seven hundred pages each. It is promised at the rate of one volume every three months.

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Contino, A. Ocular Anesthesia by Electrolytic Introduction of Anodynes. (*La Clinica Oculistica*, xii, p. 825.)

Preliminary studies were made of the anesthetic effect produced by electrolytic introduction of cocaine and its substitutes through the skin of the inner side of the arm. The electrode has a glass reservoir in which a one per cent. solution of the drug is placed, the actual terminal being a wad of cotton which plugs the container and is in contact with the solution, and which should cover an area slightly larger than that to be anesthetized. A salt of the alkaloid must be employed. With a current of 5 milli-amperes, the time required to liberate a half-centigram of the alkaloid from its salt varied in the different drugs, but the common period of application was six min-

utes. The most irritating drug was tropococain, the least alypin, and between these ranged holocain, stovain, cocain, beta-eucain, novocain and acoin in the order of mention.

The anesthesia produced by alypin, cocain and holocain was complete for ten minutes; that from beta-eucain, novocain and stovain less intense and lasted five minutes; and that from acoin and tropococain insignificant and rapidly disappeared. Cocain, and more especially alypin, are therefore to be chosen on the score of efficiency combined with lack of irritation. For a number of minor operations very satisfactory anesthesia was produced by electrolytic introduction of either of these two drugs. Further experiments were made on the skin of the arm with combinations of cocain and adrenalin, and of alypin and adrenalin. In either instance profound anesthesia was produced, superior to that obtained without adrenalin, and lasting for about three hours. With the combined method the author did a series of more considerable operations, such as removal of the lacrimal sac or of tumors of the lids, and for entropion, ectropion and ptosis.

For removing the sac, in order to anesthetize the deep tissues, it is desirable to make a longer application; and in plastic work if the area of the flaps exceeds six square centimeters, the intensity of the current may be raised to ten milli-amperes.

Pöllot, W. Atypical Hereditary Chorioretinitis Pigmentosa. (Graefes Archiv für Ophthalmologie, lxxx, p. 379.)

The pedigree shows no intermarriage of blood relations. The ocular disease was directly inherited from the grandfather by his twin daughters, and from each of these again by two sons. One son of each daughter was severely affected, showing a pronounced atypical chorioretinitis pigmentosa with marked hemeralopia and large scotomata. One son of each family was lightly affected, one of them showing only hemeralopia and isolated small scotomata. There was no evidence of lues in the family history, and the Wassermann test was negative in the only member so examined. In addition to the usual peripheral pigmentary changes in the fundus, the two severe cases showed extensive sclerosis of the choroidal network, the whole fundus having a dirty yellowish-gray discoloration. Choroidal involvement was further suggested by the fact that in one of these cases the pigment spots sometimes lay beneath the retinal vessels. In the other cases there were several areas of choroidal atrophy in one eye. The lesions in all four cases were probably not only hereditary, but congenital.

Re, F. Tuberculosis of Conjunctiva. Archivio di Ottalmologia, xix, p. 515.)

Four cases are described clinically. In each one there was a typical ulceration of the tarsal conjunctiva, with raised edges, and surrounding papillary enlargement. In three cases histological study and animal inoculation confirmed the diagnosis. All four were successfully treated with a four per cent. salve of picric acid in vaselin and lanolin. Twice (or sometimes three times) daily the ulcerated surface was spread thickly with the salve, cocain having previously been instilled. The immediate result was disappearance of the discharge which had covered the ulcer. The ulcer was gradually filled with granulation tissue, until after two or three months its site was occupied by a nodule covered with marked papillary hypertrophy. One case only was seen after the lapse of a year, when the diseased area was represented by a small scar.

Wirths, M. Associated Ophthalmoplegia, Vestibular and Optical Nystagmus. (Zeitschrift f. Augenheilkunde, xxvi, p. 318.)

A man of forty-two years, after prodromata suggesting brain tumor, came to the hospital with a complete left facial paralysis, limitation of ocular movements, and greatly lowered visual acuity. There was associated ophthalmoplegia to the left, upward and downward. But this was only true of voluntary movement, for reflex movements toward the paralyzed side (tested by passive or active rotation of the patient's head while an object was fixed) had a normal range. The patient was also able to follow a slowly-moving object to some distance beyond the primary position. In both vestibular and optical nystagmus tests, the rapid component was absent in the direction in which voluntary eye movements were impossible. The persistence of the fixation reflex, together with the partial facial paralysis, makes it probable that the lesion was located in the left half of the pons.

Wissmann, R. Experiments with Eye Extracts. Graefes Archiv für Ophthalmologie, lxxx, p. 399.)

Experiments were made on animals with extracts from normal human eyes, and from injured eyes which were enucleated because of supposed danger to the sound eye. The eye as a whole was very toxic to the guinea pig, whether the animal had or had not been previously sensitized. When lens, vitreous, uveal tract and retina were, as far as possible, separately injected, the results were completely negative. But death of the animal followed two successive combined injections of extracts from each of the four parts of the eye, mixed in the proportion occurring in the normal eye. Further experiment pointed to the uveal tract and retina, and particularly the former, as carriers of the toxic substance. This substance is destroyed by heating to 100° C., and is soluble in alcohol and ether. It therefore probably belongs to the class of lipoids. No difference was found between the effect on the animal organism of extracts from normal and those from pathologic eyes.

Rubel, E. Translucency of Iris with Transillumination in Normal and Cataractous Eyes. (Graefe's Archiv für Ophthalmologie, lxxxii, p. 317.)

The experiments were made with the Sachs lamp. The translucency of the normal iris depends mainly on the nature and structure of the stroma. Both the pigment content and the anterior layer are of first importance. No material or direct influence is to be ascribed to the pigment epithelium. No difference of brightness in favor of the upper or lower half of the iris could be perceived. The senile atrophy of the stroma seen clinically has no influence on the transparency of the iris. The translucency often increases in cataractous eyes, without any explanation being discoverable in the nature and pigment content of the anterior layer. It depends on a senile atrophy of the central and peripheral parts of the retinal pigment layer, which proceeds hand in hand with the maturity of the cataract. When there is abnormal transparency, complications on the part of the vitreous are to be feared in cataract extraction. In such eyes the vitreous is often fluid.

Ruben, L. Intraocular Transplantation of Rat Sarcoma. (Graefe's Archiv für Ophthalmologie, lxxxi, p. 199.)

A small percentage of the inoculations into rat eyes was successful. Most of the positive results were had in eyes which also developed cataract, probably due to injury of the lens incident to the difficulty of working on such small eyes. It is therefore suggested that the tumor found a favorable pabulum in a mixture of lens substance with aqueous humor. Necrosis in the resulting tumors, which grew with great rapidity, showed no dependence on the degree of vascular development. Attempts at implantation in the anterior chambers of rabbits were completely unsuccessful when the lens was not injured.

But in one case in which the inoculation was followed by discission of the lens, the implanted fragment grew for eighteen days. After this time, the wound in the capsule having healed, the growth also underwent rapid dissolution.

Rund, F. Plasmocytoma of Conjunctiva. (*Zeitschrift f. Augenheilkunde*, xxvi, p. 97.)

The growth was in the left upper lid of a man of fifty-one years. It had first appeared seventeen years earlier, and had twice recurred after excision. Microscopic section of a part of the growth showed it to consist almost entirely of plasma cells. There was absolutely no indication of a chronic inflammatory process. Plasma cells were found not only arising from the blood vessels next to the growth, but around vessels at some distance from it. The tumor is therefore to be regarded as analogous to a lymphoma.

Scherer, A. Visual Acuity and Refraction of Infantry. (*Zeitschrift f. Augenheilkunde*, xxvi, pp. 191 and 336.)

Basing on a discussion of the regulations for the Swiss Army, the writer recommends that refractive errors shall be allowed to a limit of 6 D. provided that correcting glasses give the required visual acuity. For infantry this vision should not be less than two-thirds or five-sixths, for artillery and cavalry one, and for non-combatant arms one-half. The loss of complicated lenses during the campaign should be provided against by carrying a supply of "sieve spectacles." These contain metal discs which are perforated by a number of evenly-distributed apertures of $\frac{3}{4}$ mm. diameter.

Verderame, F. Ocular Infection by Bacillus Pyocyaneus. (*Archivio, di Ottalmologia*, xix, p. 195.)

In the early stages the case was marked by enormous chemosis of the bulbar conjunctiva, which covered the cornea to a width of 3 to 5 mm.; and by a yellowish-gray membrane covering the palpebral conjunctiva and readily separated with slight loss of blood. Cornea, anterior chamber, and iris were at this time normal. Two days later small infiltrations of the corneal periphery appeared, and from these developed ulcers, which quickly coalesced and covered almost the whole cornea. The anterior chamber became almost half filled with a hypopion, and there was a sero-purulent discharge. The ulcer differed from typical serpent ulcer in the absence of undermining at the margin. The surface was covered with necrotic corneal laminae. Healing occurred without perforation. Smears, cultures and animal inoculation demonstrated the presence of bacillus pyocyaneus. Inoculation of a rabbit's cornea produced an intense conjunctivitis lasting eight days, and accompanied by profuse secretion. Numerous other experiments are described, and the literature of the subject is well reviewed.

Ophthalmic Journals

- American Journal of Ophthalmology, St. Louis, Mo.
Anales de Oftalmologia, Mexico City, Mexico.
Annales d'Oculistique, Paris, France.
Annali di Ottalmologia, Pavia, Italy.
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Viestnik Ophthalmologii, Moscow, Russia.
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